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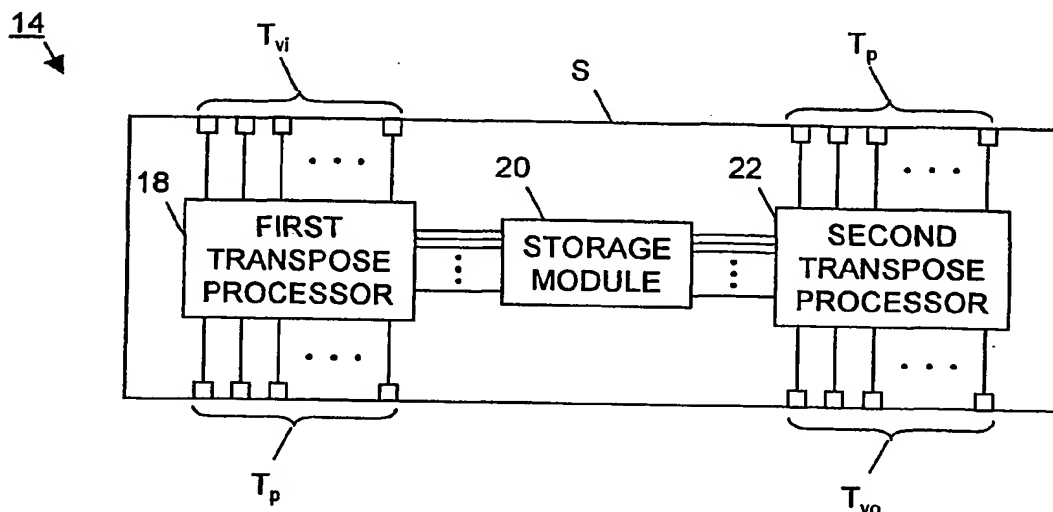
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- (71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (71) Applicant (for AE only): **U.S. PHILIPS CORPORATION** [US/US]; 1251 Avenue of the Americas, New York, NY 10510-8001 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BEUKER, Rob, Anne** [NL/NL]; P.O. Box 220, NL-5600 AE Eindhoven (NL). **POOT, Teunis** [NL/NL]; P.O. Box 220, NL-5600 AE Eindhoven (NL). **HEKSTRA, Gerben, J.** [NL/NL]; P.O. Box 220, NL-5600 AE Eindhoven (NL).
- (74) Common Representative: **KONINKLIJKE PHILIPS ELECTRONICS N.V.**; c/o LUNDIN, Thomas, M., 595 Miner Road, Cleveland, OH 44143 (US).
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(54) Title: APPARATUS FOR RE-ORDERING VIDEO DATA FOR DISPLAYS USING TWO TRANSPOSE STEPS AND STORAGE OF INTERMEDIATE PARTIALLY RE-ORDERED VIDEO DATA



(57) Abstract: A generic apparatus (14) re-orders video data for various types of displays, such as plasma discharge panels (PDPs), digital micro-mirror devices (DMDs), liquid crystal on silicon (LCOS) devices, and transpose scan cathode ray tube (CRT) displays. In one embodiment, the apparatus (14) includes a first programmable transpose processor (18), a memory (20, 120), and a second programmable transpose processor (22, 122) fabricated as a single IC unit.

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